

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/403,092DATE: 04/27/2000  
TIME: 06:25:29

INPUT SET: S35392.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

## (1) General Information:

ENTERED

(i) APPLICANT: HOFMANN, Joachim  
SCHMID, Karlheinrich  
PAULI, Annette

(ii) TITLE OF INVENTION: DICTYOCAULUS VIVIPARUS ANTIGEN FOR THE  
DIAGNOSIS OF LUNGWORM INFESTATION AND FOR VACCINATION

(iii) NUMBER OF SEQUENCES: 30

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: FOLEY & LARDNER  
(B) STREET: 3000 K Street, N.W.  
(C) CITY: Washington  
(D) STATE: D.C.  
(E) COUNTRY: U.S.A.  
(F) ZIP: 20007-5109

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 09/403,092  
(B) FILING DATE: 15-OCT-1999  
(C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: WO PCT/EP98/02090  
(B) FILING DATE: 09-APR-1998

## (vii) PRIOR APPLICATION DATA:

(A) APPLICATION NUMBER: DE 197 15 586.3  
(B) FILING DATE: 15-APR-1997

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Granados, Patricia D.  
(B) REGISTRATION NUMBER: 33,683  
(C) REFERENCE/DOCKET NUMBER: 038311/0103

## (ix) TELECOMMUNICATION INFORMATION:

RECEIVED  
MAY 17 2000  
TC 1600 MAIL ROOM

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PATENT APPLICATION US/09/403,092DATE: 04/27/2000  
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47 (A) TELEPHONE: (202) 672-5300  
48 (B) TELEFAX: (202) 672-5399  
49  
50  
51 (2) INFORMATION FOR SEQ ID NO:1:  
52  
53 (i) SEQUENCE CHARACTERISTICS:  
54 (A) LENGTH: 7 amino acids  
55 (B) TYPE: amino acid  
56 (C) STRANDEDNESS:  
57 (D) TOPOLOGY: linear  
58  
59 (ii) MOLECULE TYPE: protein  
60  
61  
62  
63  
64 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
65  
66 Ser Glu Ser Leu Tyr Glu Lys  
67 1 5  
68  
69 (2) INFORMATION FOR SEQ ID NO:2:  
70  
71 (i) SEQUENCE CHARACTERISTICS:  
72 (A) LENGTH: 7 amino acids  
73 (B) TYPE: amino acid  
74 (C) STRANDEDNESS:  
75 (D) TOPOLOGY: linear  
76  
77 (ii) MOLECULE TYPE: protein  
78  
79  
80  
81  
82 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
83  
84 Met Met Asp Asn Phe Val Lys  
85 1 5  
86  
87 (2) INFORMATION FOR SEQ ID NO:3:  
88  
89 (i) SEQUENCE CHARACTERISTICS:  
90 (A) LENGTH: 14 amino acids  
91 (B) TYPE: amino acid  
92 (C) STRANDEDNESS:  
93 (D) TOPOLOGY: linear  
94  
95 (ii) MOLECULE TYPE: protein  
96  
97  
98  
99

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100 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

101

102 Tyr Lys Asp Glu Asn Glu Phe Met Asp Ala Leu Lys Gln Lys

103

1

5

10

104

105 (2) INFORMATION FOR SEQ ID NO:4:

106

107 (i) SEQUENCE CHARACTERISTICS:

108

(A) LENGTH: 20 amino acids

109

(B) TYPE: amino acid

110

(C) STRANDEDNESS:

111

(D) TOPOLOGY: linear

112

113 (ii) MOLECULE TYPE: protein

114

115

116

117

118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

119

120 Tyr Asp Ile Pro Glu Gln Tyr Arg Glu Ile Ile Pro Gln Asn Val Ala

121

1

5

10

15

122

123 Glu His Leu Lys

124

20

125

126 (2) INFORMATION FOR SEQ ID NO:5:

127

128 (i) SEQUENCE CHARACTERISTICS:

129

(A) LENGTH: 26 amino acids

130

(B) TYPE: amino acid

131

(C) STRANDEDNESS:

132

(D) TOPOLOGY: linear

133

134 (ii) MOLECULE TYPE: protein

135

136

137

138

139 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

140

141 Asp Ala Ile Glu Lys Tyr Glu Asp Ile Pro Glu Gln Tyr Arg Glu Ile

142

1

5

10

15

143

144 Ile Pro Gln Asn Val Ala Glu His Leu Lys

145

20

25

146

147 (2) INFORMATION FOR SEQ ID NO:6:

148

149 (i) SEQUENCE CHARACTERISTICS:

150

(A) LENGTH: 18 amino acids

151

(B) TYPE: amino acid

152

(C) STRANDEDNESS:

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153 (D) TOPOLOGY: linear  
154  
155 (ii) MOLECULE TYPE: protein  
156  
157  
158  
159  
160 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  
161  
162 Phe His Ala Glu Leu Leu Ala Gly Ile Lys Pro Ser Leu Glu Glu Leu  
163 1 5 10 15  
164  
165 Lys Lys  
166  
167  
168 (2) INFORMATION FOR SEQ ID NO:7:  
169  
170 (i) SEQUENCE CHARACTERISTICS:  
171 (A) LENGTH: 14 amino acids  
172 (B) TYPE: amino acid  
173 (C) STRANDEDNESS:  
174 (D) TOPOLOGY: linear  
175  
176 (ii) MOLECULE TYPE: protein  
177  
178  
179  
180  
181 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:  
182  
183 Gln Phe Pro Ile Leu Thr Ser Val Phe Ser Asn Glu Glu Lys  
184 1 5 10  
185  
186 (2) INFORMATION FOR SEQ ID NO:8:  
187  
188 (i) SEQUENCE CHARACTERISTICS:  
189 (A) LENGTH: 21 base pairs  
190 (B) TYPE: nucleic acid  
191 (C) STRANDEDNESS: single  
192 (D) TOPOLOGY: linear  
193  
194 (ii) MOLECULE TYPE: DNA (genomic)  
195  
196  
197 (ix) FEATURE:  
198 (A) NAME/KEY: exon  
199 (B) LOCATION: 1..21  
200  
201  
202 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
203  
204 TCNGARUCNY TNTAYGARA R  
205

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206 (2) INFORMATION FOR SEQ ID NO:9:

207

208 (i) SEQUENCE CHARACTERISTICS:

209 (A) LENGTH: 21 base pairs

210 (B) TYPE: nucleic acid

211 (C) STRANDEDNESS: single

212 (D) TOPOLOGY: linear

213

214 (ii) MOLECULE TYPE: DNA (genomic)

215

216

217 (ix) FEATURE:

218 (A) NAME/KEY: exon

219 (B) LOCATION: 1..21

220

221

222 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

223

224 ATGATGGAYA AYT TYGTNAA R

21

225

226 (2) INFORMATION FOR SEQ ID NO:10:

227

228 (i) SEQUENCE CHARACTERISTICS:

229 (A) LENGTH: 42 base pairs

230 (B) TYPE: nucleic acid

231 (C) STRANDEDNESS: single

232 (D) TOPOLOGY: linear

233

234 (ii) MOLECULE TYPE: DNA (genomic)

235

236

237 (ix) FEATURE:

238 (A) NAME/KEY: exon

239 (B) LOCATION: 1..42

240

241

242 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

243

244 TAYAARGAYG ARAAYGARTT YATGGAYGCN YTNAARCARA AR

42

245

246 (2) INFORMATION FOR SEQ ID NO:11:

247

248 (i) SEQUENCE CHARACTERISTICS:

249 (A) LENGTH: 60 base pairs

250 (B) TYPE: nucleic acid

251 (C) STRANDEDNESS: single

252 (D) TOPOLOGY: linear

253

254 (ii) MOLECULE TYPE: DNA (genomic)

255

256

257 (ix) FEATURE:

258 (A) NAME/KEY: exon

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/403,092**

DATE: 04/27/2000  
TIME: 06:25:31

***INPUT SET: S35392.raw***

Line

Error

Original Text